DIKE, BRONSTEIN, ROBERTS &	CUSHMAN, LLP
130 Water Street	
Rocton Maccachusette 02100	**

Attorney's	Docket	No.	
Attorney's	Docket	140.	

Page 1 of 5

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: My reside	ence, post office address and citizenship are as stated below
next to my name. I believe I am the original, first and sole inventor (if only one name is listed at 201) below or an original, first
and joint inventor (if plural names are listed at 201-208 below) of the	subject matter which is claimed and for which a patent is
sought on the invention entitled:	-

SEMI	CONDUCTOR LAS	ER DEVICE,	OPTICAL	PICKUP	AND	FABRICATION	
METH	OD OF SEMICON	DUCTOR LAS	ER DEVICE	Ξ			
which is described	and claimed in:						
2	the specification	attached hereto.					
	the specification	in U.S. Applicati	ion Serial Num	ber		, filed on	
	the specification filed on	in PCT internatio					

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign/PCT Applications and Any Priority Claims Under 35 U.S.C. 119:				
Application No.	Filing Date	Country	Priority Claimed Under 35 U.S.C. 119?	
2000-307462(P)	October 6, 2000	Japan	⊠YES □NO	
2001-112770(P)	April 11, 2001	Japan	⊠YES □NO	
			□YES □NO	
·			□YES □NO	

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Prior U.S. Applic	Prior U.S. Applications or PCT International Applications Designating the U.S-Benefit Under 35 U.S.C. §120					
	U.S. Application	ons	St	Status (Check One)		
Application	n Serial No.	U.S. Filing Date	Patented	Pending	Abandoned	
		-	ļ			
PC	T Applications Design	ating the U.S.				
Application No.	Filing Date	U.S. Serial No. Assigned				

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) (35 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Applicant	Provisional Application Number	Filing Date
·		

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Sewall P. Bronstein David G. Conlin	(Reg. No. 16,919) (Reg. No. 27,026)	Linda M. Buckley Ronald I. Eisenstein	(Reg. No. 31,003) (Reg. No. 30.628)	David S. Resnick Peter F. Corless	(Reg. No. 34,235) (Reg. No. 33,860)
George W. Neuner	(Reg. No. 26,964)	Henry D. Pahl, Jr.	(Reg. No. 20,438)	i car i . concas	(Acg. 110. 33,000)
Frnest V Linek	(Dec. No. 20 922)	Dates I Manue	(Don No 26 766)		

SEND CORRESPONDENCE TO: Dike, Bronstein, Roberts & Cushman, LLP 130 Water Street Boston, Massachusetts 02109 DIRECT TELEPHONE CALLS TO: (617) 523-3400

	FULL NAME OF INVENTOR	LAST NAME SHIOMOTO	FIRST NAME Takehiro	MIDDLE NAME	
2 0 1	RESIDENCE & CITIZENSHIP	спү Kashihara-shi	state or foreign country Nara, Japan	country of citizenship Japan	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 333–10, Ouzuku-cho	спү Kashihara-shi	state or country and zip code Nara, Japan	

	FULL NAME OF INVENTOR	LAST NAME NOZAKI	FIRST NAME Kenzo	MIDDLE NAME
2 0 2	RESIDENCE & CITIZENSHIP	Ikoma-shi	STATE OR FOREIGN COUNTRY Nara, Japan	country of citizenship Japan
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 1-39, Sakuragaoka	cmy Ikoma-shi	state or country and zip code Nara, Japan

	FULL NAME OF INVENTOR	LAST NAME YOSHIDA	FIRST NAME Toshihiko	MIDDLE NAME
2 0 3	RESIDENCE & CITIZENSHIP	เกร Nara-shi	STATE OR FOREIGN COUNTRY Nara, Japan	соинтку оf сітіденізнір Japan
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 25-102, 2-1, Suzaku 5-chome	спү Nara-shi	STATE OR COUNTRY AND ZIP CODE Nara, Japan

	FULL NAME OF INVENTOR	LAST NAME HONDA	FIRST NAME Masayuki	MIDDLE NAME
2 0 4	RESIDENCE & CITIZENSHIP	спү Sakurai-shi	STATE OR FOREIGN COUNTRY Nara, Japan	COUNTRY OF CITIZENSHIP Japan
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 1068-6, Abe	спү Sakurai-shi	state or country and zip code Nara, Japan

	FULL NAME	LAST NAME	FIRST NAME	MIDDLE NAME
	OF INVENTOR			
:	RESIDENCE & CITIZENSHIP	спу	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	СПҮ	STATE OR COUNTRY AND ZIP CODE
=				
	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
2 0 6	RESIDENCE & CITIZENSHIP	СПУ	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	СПҮ	STATE OR COUNTRY AND ZIP CODE
-	<u> </u>			
	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
2	RESIDENCE & CITIZENSHIP	спу	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	СІТУ	STATE OR COUNTRY AND ZIP CODE
		POST OFFICE ADDRESS	СПУ	STATE OR COUNTRY AND ZIP CODE
		POST OFFICE ADDRESS LAST NAME	FIRST NAME	STATE OR COUNTRY AND ZIP CODE MIDDLE NAME
	ADDRESS FULL NAME			

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201	Signature of Inventor 202		
Takehino Shiomoto	Kenzo nozaki		
Date: 2001. 9. 25	Date: 200/, 9, 26		

Signature of Inventor 203	Signature of Inventor 204			
Toslihiko Yohida	masoyubi Hunda			
Date: 2001, 9. 20	Date: 2001. 9. 26			
Signature of Inventor 205	Signature of Inventor 206			
Date:	Date:			
Signature of Inventor 207	Signature of Inventor 208			
Date:	Date:			



DECEMBER 14, 2001

PTAS DIKE BRONSTEIN ROBERTS & CUSHMAN WILLIAM J. DALEY, JR. EDWARDS & ANGELL, LLP P.O. BOX 9169 BOSTON, MA 02209

Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231

EDWARDS & ANGELL LLP DIKE BRONSTEIN ROBERTS CUSHMAN

101872727A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/04/2001

REEL/FRAME: 012234/0676

NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SHIOMOTO, TAKEHIRO

DOC DATE: 09/25/2001

ASSIGNOR:

NOZAKI, KENZO

DOC DATE: 09/20/2001

ASSIGNOR:

YOSHIDA, TOSHIHIKO

DOC DATE: 09/26/2001

ASSIGNOR:

HONDA, MASAYUKI

DOC DATE: 09/26/2001

ASSIGNEE:

SHARP KABUSHIKI KAISHA 22-22 NAGAIKE-CHO, ABENO-KU OSAKA-SHI OSAKA 545-8522, JAPAN

SERIAL NUMBER: 09971207

PATENT NUMBER:

FILING DATE: 10/04/2001

ISSUE DATE:

012234/0676 PAGE 2

JEEVON JONES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

.

.

egina ji e ili

. .. .

10-15-2001



Practitioner's Docket No. 56537 (70551) 101872727

PATENT



Box Patent Application

Assistant Commissioner for Patents

Washington, D.C. 20231

D.C. 20231

COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING

NEW PATENT APPLICATION (37 CFR 3.31)

IDENTIFICATION OF APPLICATION (37 CFR 3.21 and 37 CFR 3.31(a)(4))

1.	The $[X]$	patent application	[]	provisional	patent	application	filed	herewith	and,	to	which	the
	attached as	signment (documen	t) re	fers, is identi	ified as	follows:						

a. Type of application

[X] Application of patent (37 C.F.R. 1.53(b))

Continued prosecution (nonprovisional) application (37 C.F.R. 1.53(d))

[] Provisional application (37 C.F.R. 1.51(c))

[] International application (37 C.F.R. 1.431)

b. Date of execution: September 20, 2001 September 25, 2001 and September 26, 2001 NOTE: Leave this blank if assignment is for a provisional application.

09/97/207

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is mandatory.)
(Express Mail certification is optional.)

I hereby certify that this "Cover Sheet for Assignment (Document) Accompanying New Patent Application" and the documents referred to as attached therein are being deposited with the United States Postal Service on this date October 4, 2001, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EL789785006US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Fatima H. DeArruda

(type of print name of person mailing paper)

Signature of person mailing paper

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING:

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

2001 GGERREGI 00000014 09971207

(Cover Sheet for Assignment Accompanying New Patent Application—page 1 of 4)

381

- c. Name of each inventor:
 - 1: Takehiro SHIOMOTO
 - 2: Kenzo NOZAKI
 - 3: Toshihiko YOSHIDA
 - 4: Masayuki HONDA
- d. Title of invention: SEMICONDUCTOR LASER DEVICE, OPTICAL PICKUP AND FABRICATION METHOD OF SEMICONDUCTOR LASER DEVICE

NOTE: 37 C.F.R. § 3.21 states: "If an assignment of a patent application filed under § 1.53(b) is executed concurrently with, or subsequent to, the execution of the patent application, but before the patent application is filed, it must identify the patent application by its date of execution, name of each inventor, and title of the invention so that there can be no mistake as to the patent application intended. If an assignment of a provisional application under 1.53(c) is executed before the provisional application is filed, it must identify the provisional application by name of each inventor and title of the invention so that there can be no mistake as to the provisional application intended."

NAME OF PARTY(IES) CONVEYING INTEREST (37 CFR 3.31(a)(1))

2.	The party(ies) conveying this interest is (are):						
	Name 1:	Takehiro SHIOMOTO					
	Name 2:	Kenzo NOZAKI					
	Name 3:	Toshihiko YOSHIDA					
	Name 4:	Masayuki HONDA					
		•		-			

NAME AND ADDRESS OF PARTY(IES) RECEIVING INTEREST (37 CFR 3.31(a)(2))

3. The rights are being conveyed to:

Name:

Sharp Kabushiki Kaisha

Address:

22-22 Nagaike-cho, Abeno-ku

Osaka-shi, Osaka 545-8522 JAPAN

Telephone No.: 011 81 6 6351 4384

DESCRIPTION OF INTEREST CONVEYED OR TRANSACTION RECORDED (37 CFR 3.31 (a)(3))

4.	The accompanying document intends to accomplish:						
	[X]	an assignment					
	[]	a security agreement.					
	[]	a license.					
	[]	a merger.					
	[]	a change of name.					
	[]	a change of address.					
	ĹĬ	other.					

(Cover Sheet for Assignment Accompanying New Patent Application—page 2 of 4)

NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE SHOULD BE MAILED (37 CFR 3.31(a)(5))

5.	Name:	William J. Daley, Jr. Dike Bronstein Roberts & Cushman Intellectual Property Practice Group of Edwards & Angell, LLP P.O. BOX 9169 Boston, MA 02209
	Telephone No.:	(617) 439-4444
6.		ASSIGNMENT (DOCUMENT) EXECUTED (37 CFR 3.31(a)(7)) signment (document) was executed on September 20, 2001; September 25, 2001 26, 2001.
	LANGU	JAGE OF ASSIGNMENT (DOCUMENT) TO BE RECORDED
NOTE:		ccept and record non-English language documents only if accompanied by an English translation dual making the translation." 37 CFR 3.26.
7.	The attached do [X]	cument: is in the English language. is not in the English language. An English translation signed by the individual making the translation and statement as to its accuracy is attached.
	o	RIGINAL DOCUMENT OR TRUE COPY SUBMITTED
NOTE:	each page shall be	l document or a true copy of the original document may be submitted for recording. Only one side of used. The paper used should be flexible, strong, white, non-shiny, durable, and preferably no larger a. (8½ x 14 inches) with a 2.5 cm. (one-inch) margin on all sides." 37 CFR 3.24.
8.	Submitted herev [X] []	with is: the original document. a true copy of the original document.
NOTE:	[set out in 37 C.F.]	signment] document is two-sided or the wrong size, the practitioner can comply with the requirement $R. \ \S \ 3.24$] by providing a true copy of the original document using only one side of each page on the 'Notice of June 24, 1992, 1140 O.G. 63-76, at 67.

(Cover Sheet for Assignment Accompanying New Patent Application—page 3 of 4)

NUMBER OF APPLICATIONS IDENTIFIED IN THIS COVER SHEET AND THE FEE

"All requests to record documents must be accompanied by the appropriate fee. Except as provided in paragraph (b) of this section, a fee is required for each application or patent against which the document is recorded as identified in the cover sheet. The recording fee is set in § 1.21(h)..." 37 CFR 3.41. 9. A. This cover sheet identifies only one application. B. The fee for recordal (37 CFR 1.21(h)) is \$40.00. Attached is a check for \$40.00. [X][] Please charge Account \$40.00. A duplicate of this cover sheet is attached. **STATEMENT** (37 CFR 3.31(a)(9)) AND SIGNATURE (37 CFR 3.31(a)(10)) 10. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Date: October 4, 2001 William J. Daley, Jr. (Reg. No. 35,487) Dike, Bronstein, Roberts & Cushman Intellectual Property Practice Group of PO BOX 9169 Boston, MA 02209 TOTAL NUMBER OF PAGES BEING SUBMITTED 11. The total number of pages being submitted, including cover sheet, attachment(s), and document(s) are: Total number of pages submitted

(Cover Sheet for Assignment Accompanying New Patent Application—page 4 of 4)

and the second of the second o

United States Patent Rights, or United States plus All Foreign Patent Rights

ATTORNEY DOCKET NO.		
	•	

ASSIGNMENT

	Ap	oplication No. $_$				File	d
Insert Name(s)	→	WHEREAS,_	Takehiro	SHIOMOTO,	, Kenzo N	OZAKI,	
of Inventor(s)			Toshihiko	YOSHIDA	and Masa	yuki HONDA	
						(-31 834 1.4	
	_			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
	(h	ereinafter designate	d as the undersign	ed) has (have) is	nvented certain	new and useful imp	rovements in
Insert Title of Invention	→ _		OUCTOR LASE			_	
		FABRICAT	ION METHOD	OF SEMIC	CONDUCTOR	LASER DEV	ICE
	for	r which an applicati	on for Letters Pater	nt of the United	States of Americ	ca has been execute	d by the undersigned
Insert Date of Signing of Application	⇒ or	n Septembe	er 20, 2001,	September	25, 2001 a	nd September	26, 2001; and
Insert Name of Assignee	→	WHEREAS,_	Sharp	Kabushiki	Kaisha		
	_						
Insert Address of Assignee	→ of	22-22, Nac	gaike-cho, Ab	oeno-ku, Os			· · · · · · · · · · · · · · · · · · ·
CHECK BOX	ac m:	quiring the entire	right, title and int efor in the United	terest in and to s	said invention a		ignee) is desirous of etters Patent(s) that

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Robert & Cushman the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Date September 25, 2001	Name of Inventor	Jakehiro Striomoto
		(signature) Takehiro SHIOMOTO
Date September 26, 2001	Name of Inventor	Kenzo nozaki (signature) Kenzo NOZAKI
		(signature) Kenzo NOZAKI
Date <u>September 20, 2001</u> ,	Name of Inventor	Tosliliko Yoshida (signature) Toshihiko YOSHIDA
		(signature) Toshihiko YOSHIDA
Date September 26, 2001	Name of Inventor	Masayuki Honda (signature) Masayuki HONDA
		(signature) Masayuki HONDA
Date,	Name of Inventor	
		(signature)
Date,	Name of Inventor	
	•	(signature)
Date,	Name of Inventor	
		(signature)
Data	Nome of Inventor	
Date	Name of Inventor	(signature)
D .		
Date	Name of Inventor	(signature)
		(0-8-0-0-0)
Date	Name of Inventor	
		(signature)